



HUSKY®

The Toughest Name In Tools

Operation & Parts Manual

1/2" SD Impact Wrench

FEATURES & BENEFITS

The Husky Model H4103 1/2" Impact Wrench is designed for general fastening applications. This tool features a high energy motor with a single hammer impact mechanism, contoured grip, ergonomic design for increased balance and control. A protective rubber nose piece and a ring type retainer for quick sockets changes.

Model No. H4103 SKU No. 239-999

SPECIFICATIONS

Drive size	1/2"
Impacts per minute	900 IPM
Free speed (No Load)	8,000 RPM
Maximum torque	375 ft. lbs.
Weight	5.2 lbs.
Overall length	7 1/2"
Average air consumption	4 CFM
Recommended hose size	3/8" I.D.
Air inlet	1/4" NPT
Maximum Air Pressure	90 PSI



GENERAL SAFETY INFORMATION



Read Operating Instructions

Always become familiar with all the instructions and warnings before operating any pneumatic tool.



Always Wear Approved Eye Protection

Impact resistant eye protection should meet or exceed the standards as set forth in the United States ANSI Z87.1, Occupational and Educational Eye and Face Protection. Look for the marking Z87.1 on your eye protection to insure that it is an approved style. For further information, ANSI Z87.1, Occupational and Educational Eye and Face Protection, is available from the American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036.



Hearing Protection is Recommended

Hearing protection should be used when the noise level exposure equals or exceeds an 8 hour time-weighted average sound level of 85dBA. Process noise, reflective surfaces, other tools being operated nearby, all add to the noise level present in your work area. If you are unable to determine your noise level exposure, we recommend the use of hearing protection.



Avoid Prolonged Exposure to Vibration

Pneumatic tools can vibrate during use. Prolonged exposure to vibration or very repetitive hand and arm movements, can cause injury. Stop using any tool if discomfort, tingling feeling or pain occurs. You should consult your physician before resuming use of the tool.



90 PSIG Maximum

Husky impact wrenches are designed to operate at an air pressure of 90 pounds per square inch gauge pressure (90 PSIG) maximum, at the tool. Use of higher air pressure can, and may cause injury. Also use of higher air pressure places the internal components under loads and stresses they were not designed for, causing premature tool failure. The air supply should be clean and dry, preferably lubricated. For best results drain the moisture from your compressor daily.



WARNING: SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES CONTAINS CHEMICALS KNOWN TO CAUSE CANCER, BIRTH DEFECTS OR REPRODUCTIVE HARM. SOME EXAMPLES OF THESE CHEMICALS ARE:

LEAD FROM LEAD-BASED PAINTS
CRYSTALLINE SILICA FROM BRICKS, CEMENT AND OTHER MASONRY PRODUCTS
ARSENIC AND CHROMIUM FROM CHEMICALLY TREATED LUMBER

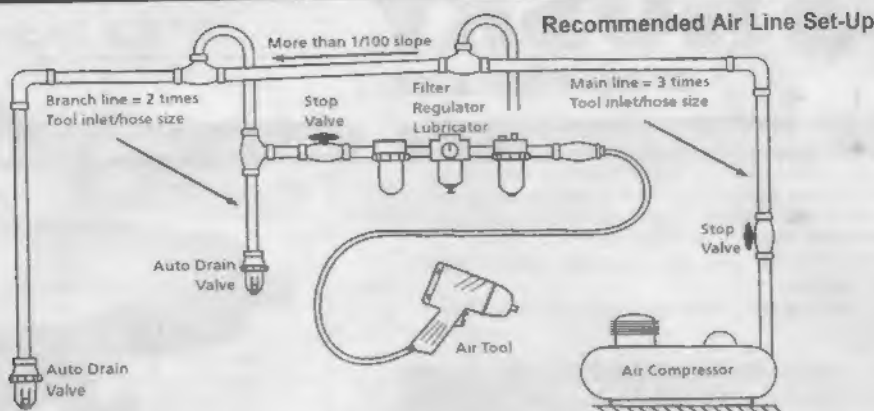
YOUR RISK FROM THESE EXPOSURES VARIES, DEPENDING ON HOW OFTEN YOU DO THIS TYPE OF WORK. TO REDUCE YOUR EXPOSURE TO THESE CHEMICALS, WORK IN A WELL VENTILATED AREA AND WORK WITH APPROVED SAFETY EQUIPMENT SUCH AS THOSE DUST MASKS THAT ARE SPECIALLY DESIGNED TO FILTER OUT MICROSCOPIC PARTICLES.



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2455 Paces Ferry Road, Atlanta Georgia 30339

INSTALLATION



Installation

Always use clean dry air. Excessive moisture and dirt will greatly reduce the life of any air motor. We recommend the installation of an in-line filter-regulator-lubricator as close to the tool as possible.

A 3/8" air hose is required up to a length of 8 ft. If more length is required a 1/2" air hose should be connected to the 3/8" hose to ensure the tool has the necessary air supply. Be sure all hoses and fittings are the correct size and tightly secured.

Before the tool is connected to the air supply, clear the air hose of accumulated dust and moisture. Before removing a tool for service or changing sockets, make sure the air line is shut-off and drained of air. This will prevent the tool from operating if the throttle is accidentally engaged.

OPERATION



(Ref 1)

This Husky 1/2" impact is supplied with an internal power regulator, this tool may be adjusted by rotating the switch (Ref No. 27), until desired output is achieved. The numbers 1 through 3 on the regulator are only for reference and do not denote a specific power output. Turn counterclockwise to one for less power and clockwise to three for maximum power. Power is regulated in both forward and reverse direction.

Once a bolt or fastener is seated, impacting for longer than five seconds will cause excessive wear and damage to the impacting mechanism. If it takes longer than five seconds to tighten your bolt or fastener, we recommend the use of a larger size impact wrench.

MAINTENANCE

Lubrication

An automatic in-line filter-regulator-lubricator is recommended as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

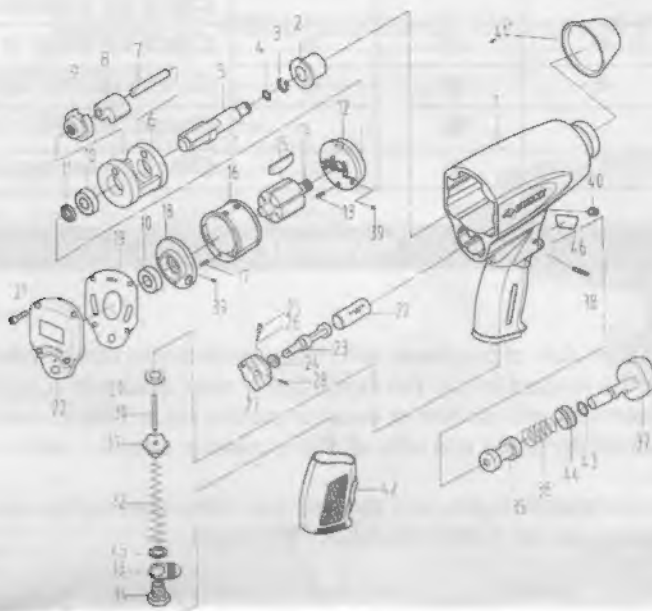
Recommended lubricants: Use Husky air tool oil or any other high grade turbine oil containing moisture absorbents, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive.

Greasing of hammer unit

The screw in the hammer housing (Ref. No. 40) located at the side of the tool is used to lubricate the hammering unit.

EXPLODED VIEW & REPLACEMENT PARTS LIST

For replacement parts or the nearest service center, call toll free 1-877-841-9438



Ref. #	Part No.	Description	Ref. #	Part No.	Description
1	9287155	Housing	24	9287178	O-Ring
2	9287156	Anvil Bushing	25	9287179	Set Pin
3	9287157	Socket Retainer	26	9287180	Spring
4	9287158	O-Ring	27	9287181	Reverse Switch
5	9287159	Anvil	28	9287182	Set Pin
6	9287160	Hammer Cage	29	9287183	Valve Seat
7	9287161	Hammer Pin (2)	30	9287184	Valve Stem
8	9287162	Hammer	31	9287185	Throttle Valve
9	9287163	Cam	32	9287186	Valve Spring
10	9287164	Ball Bearing (2)	33	9287187	Exhaust Diffuser
11	9287165	Oil Seal	34	9287188	Air Inlet Bushing
12	9287166	Front End Plate	35	9287190	Trigger Sleeve
13	9287167	Dowel Pin	36	9287191	Spring
14	9287168	Rotor	37	9287192	Trigger
15	9287169	Rotor Blade (6)	38	9287193	Set Pin
16	9287170	Cylinder	39	9287194	Plug
17	9287171	Dowel Pin	40	9287195	Oil Plug
18	9287172	Rear End Plate	41	9287196	Protective Nose Cover
19	9287173	Gasket	42	9287197	Grip
20	9287174	Rear Cover	43	9287198	O-Ring
21	9287175	Cap Screw (4)	44	9287199	Sleeve
22	9287176	Valve Sleeve	45	9287200	Spacer
23	9287177	Plunger	46	9287201	Label

TROUBLESHOOTING CHART

Low Power	Erratic Action	Blows Air Won't Run	Tool Noisy	Causes and Solutions
✱				Check air pressure.
✱	✱	✱	✱	Check for water in lines.
✱	✱	✱	✱	Oil tool with air tool oil.
		✱		Check FWD/REV switch.
✱		✱		Check power regulator setting

WARRANTY

One Year Warranty

If within one (1) year from date of purchase, this Husky product fails due to a defect in materials or workmanship, return the product to any The Home Depot retail store with a receipt indicating proof of purchase for replacement with an item of equal or greater value. This warranty excludes incidental/ consequential damages and failures due to misuse, abuse or normal wear and tear.

This warranty gives you specific rights, and you may also have other rights, which vary, from state to state. Please see store or call 1-888-HD-HUSKY for details.



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